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A-04236-1/JPB, RFI

JUNE 20, 1997

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FLEHR, HOHBACH, TEST, ALBRITTON, ET AL.
RICHARD F. TRECARTIN
FOUR EMBARCADERO CENTER, SUITE 3400
SAN FRANCISCO, CALIFORNIA 94111-4187



100416558A

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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

TECH CENTER 1600/2900

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/09/1997

REEL/FRAME: 8497/0702

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HAMMERMAN, MARC

DOC DATE: 03/19/1997

ASSIGNEE:

WASHINGTON UNIVERSITY
ONE BROOKINGS DRIVE
ST. LOUIS, MISSOURI 63130

SERIAL NUMBER: 08797201

FILING DATE: 02/11/1997

PATENT NUMBER:

ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

MID 05-09-9 REC. --

FORM PTO-1595
1-31-92

MAY 09 1999

05-14-1997

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeTo the Honorable Commissioner of Patent
copy thereof.

OPIPE 100416558

T attached original documents or

1. Name of conveying party(ies): March 23 2002
HAMMERMAN

2. Name and address of receiving party(ies):

Internal Address: Washington UniversityAdditional name(s) of conveying
party(ies) attached? Yes No

3. Nature of Conveyance:

 Assignment Merger Security Agreement Change of NameExecution Date: 19 March 1997Street Address: One Brookings DriveCity: St. LouisState: MO Zip: 63130

Additional name(s) & address(es) attached?

 Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No. (s) 08/797,201

B. Patent No. (s)

Additional numbers attached? Yes No5. Name and address of party to whom correspondence
concerning document should be mailed:6. Total number of applications
and patents involved: 1Name: Richard F. Trecartin7. Total fee (37 CFR 3.41): \$40.00Internal Address: FLEHR, HOHBACH, TEST, EnclosedALBRITTON & HERBERT Authorized to be charged to
deposit accountStreet Address: SUITE 34008. Deposit account number: 06-1300FOUR EMBARCADERO CENTERPlease debit any underpayment or credit any
overpayment to the above deposit account.City: SAN FRANCISCO

Our Order No. _____

State: CA Zip: 94111-4187(Attach duplicate of this page if paying by deposit
account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.Jan P. Brunelle
Name of Person SigningJan P. Brunelle
Signature

May 6, 1997

Date

Total number of pages including cover sheet, attachments and document: 4

OMB No. 0651-0011 (exp. 4/94)

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File No. A-64236-1/RFT/JPB

OCT 29 2002

Rev. 8/93

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ASSIGNMENT
(NOT ACCOMPANYING APPLICATION)

WHEREAS, the undersigned, Marc Hammerman (hereinafter termed "Inventor"), a resident of St. Louis, State of Missouri, has invented certain new and useful improvements in CHIMERIC KIDNEY and has executed an application for a United States patent disclosing and identifying the invention on even date herewith; and having Serial No. 08/797,201 and filing date of 11 February 1997; and

WHEREAS, Washington University (hereinafter termed "Assignee"), a corporation of the State of Missouri, having a place of business at One Brookings Drive, St. Louis, 63130, State of Missouri, is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every

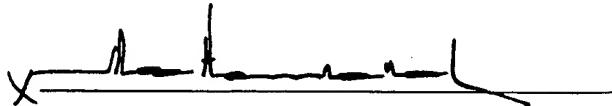
patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, his heirs, legal representatives and assigns.

4. Said Inventor hereby warrants and represents that he has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this 19th day of March, 1997.



Marc Hammerman

County of ,
.)
.) ss.
State of .)

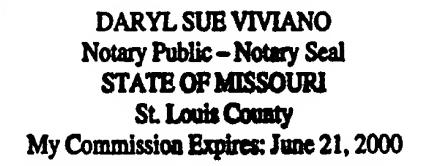
On this 19 day of March, in the year 1997, before me,
Daryl Sue Viviano, Notary Public of the State of Missouri,
personally appeared _____, personally known to me (or
proved to me on the basis of satisfactory evidence) to be the person whose name
is subscribed to the within instrument, and acknowledged to me that he/she
executed the same in his/her authorized capacity(ies), and that by his/her
signature on the instrument the person, or the entity upon behalf of which the
person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Daryl Sue Viviano

(Seal)

Form 1.22 (8074)



A-64236-3



JUNE 30, 1999



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FLEHR HOHBACH TEST ET
RICHARD F. TRECARTIN
FOUR EMBARCADERO CENTER, STE. 3400
SAN FRANCISCO, CA 94111-4187

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RECORDATION DATE: 04/05/1999

REEL/FRAME: 9910/0171

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HAMMERMAN, MARC R.

DOC DATE: 02/26/1999

ASSIGNOR:

ROGERS, SHARON A.

DOC DATE: 02/26/1999

ASSIGNEE:

WASHINGTON UNIVERSITY
ONE BROOKINGS DRIVE
ST. LOUIS, MISSOURI 63130

SERIAL NUMBER: 09222460

FILING DATE: 12/29/1998

PATENT NUMBER:

ISSUE DATE:

MAURICE CARTER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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To the Honorable Commissioner of Patent
thereof.

101024421

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1. Name of conveying party(ies):

(1) Marc R. Hammerman
(2) Sharon A. Rogers

Additional name(s) of conveying
party(ies) attached? Yes No

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
Execution Date: 02/26/99

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s):

09/222,460

B. Patent No.(s):

Additional numbers attached? Yes No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: Richard F. TrecartinInternal Address: FLEHR HOHBACH TESTALBRITTON & HERBERT LLP

Street Address:

Four Embarcadero Center, Suite 3400City: San FranciscoState: CA Zip: 94111-41876. Total number of applications
and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00 Enclosed Authorized to be charged to
deposit account8. Deposit account number: 06-1300Please debit any underpayment or credit any
overpayment to the above deposit account.Our Order No. A-64236-3/RFT(Attach duplicate of this page if paying by deposit
account)

04/29/1999 DNGUYEN 00000252 061300 09222460

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.Richard F. Trecartin
Name of Person Signing

Signature

March 31, 1999
DateTotal number of pages including cover sheet, attachments and document: [3]

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04-30-1999

To the Honorable Commissioner of Patent
thereof.

101024421

attached original documents or copy

4.5.99

1. Name of conveying party(ies):

(1) Marc R. Hammerman
(2) Sharon A. Rogers

Additional name(s) of conveying
party(ies) attached? Yes No

O P E

OCT 23 2002

P A T E N T S & T R A D E M A R K S

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name

Execution Date: 02/26/99

2. Name and address of receiving party(ies):

Internal Address:
Washington University

Street Address:

One Brookings Drive

City: St. Louis

State: MO Zip: 63130

Additional name(s) & address(es) attached?

 Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No. (s):

09/222,460

B. Patent No. (s):

Additional numbers attached? Yes No5. Name and address of party to whom correspondence
concerning document should be mailed:6. Total number of applications
and patents involved: 1

Name: Richard F. Trecartin

Internal Address: FLEHR HOHBACH TEST

ALBRITTON & HERBERT LLP

7. Total fee (37 CFR 3.41): \$ 40.00

Street Address:

Four Embarcadero Center, Suite 3400

City: San Francisco

State: CA Zip: 94111-4187

 Enclosed Authorized to be charged to
deposit account8. Deposit account number: 06-1300
Please debit any underpayment or credit any
overpayment to the above deposit account.

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account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original document.Richard F. Trecartin
Name of Person Signing

Signature

March 31, 1999
Date

Total number of pages including cover sheet, attachments and document: [3]

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ASSIGNMENT
(Not Accompanying Application)

WHEREAS, the undersigned:

(1) Marc R. Hammerman a resident of St. Louis, State of Missouri; and
(2) Sharon A. Rogers a resident of Edwardsville, State of Illinois,
(hereinafter termed "Inventors") have invented certain new and useful improvements in
COMPOSITION AND METHOD FOR IMPROVING FUNCTION OF EMBRYONIC KIDNEY
TRANSPLANTS and have executed an application for a United States patent disclosing and identifying
the invention on even date herewith; and having Serial No. 09/222,460 and filing date of **December 29,**
1999, and

WHEREAS, Washington University in St. Louis (hereinafter termed "Assignee"),
a corporation of the State of Missouri, having a place of business at One Brookings Drive, St. Louis,
State of Missouri, is desirous of acquiring the entire right, title and interest in and to said
application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore
conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and
in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed
"patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said
Inventor to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire
right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply
for foreign patents on said invention pursuant to the International Convention for the Protection of
Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents
granted on said invention in the United States or any foreign country, including each and every
application filed and each and every patent granted on any application which is a division, substitution,
or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any
of said patents.

2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said
Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and
foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts
and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other
papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for
perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said
applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications
covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents;
(e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings
involving said invention and any applications therefor and any patents granted thereon, including without
limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings,
infringement actions and court actions; provided, however, that the expense incurred by said Inventor in
providing such cooperation shall be paid for by said Assignee.

3. The terms, covenants and conditions of this assignment shall inure to the benefit of said
Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors,
their heirs, legal representatives and assigns.

4. Said Inventors hereby warrant and represent that they have not entered and will not enter
into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee this (1) 26th day of February, 1999; and (2) 26th day of February, 1999.

(1) M R H
Marc R. Hammerman

County of St. Louis ,
)
) ss.
State of Missouri .

On this 26 day of February, in the year 1999 before me, Daryl Sue Viviano, Notary Public of the State of Missouri, personally appeared Marc R. Hammerman, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Daryl Sue Viviano

DARYL SUE VIVIANO
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County
My Commission Expires: June 21, 2000
(Seal)

County of St. Louis ,
)
) ss.
State of Missouri .

On this 26 day of February, in the year 1999 before me, Daryl Sue Viviano, Notary Public of the State of Missouri, personally appeared Sharon A. Rogers, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Daryl Sue Viviano

DARYL SUE VIVIANO
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County (Seal)
My Commission Expires: June 21, 2000